Selectivity in Chemical Analysis Chromatography

Agilent Chemical Analysis Training Courses

H8968A

Two Days
Lecture Only

Description

Focuses on one of the most neglected aspects of analytical separation strategies: selectivity. The more selective an analytical method is, the greater the precision, accuracy, sensitivity and even integrity of chromatographic analyses.

This course demonstrates how state-of-the-art selective techniques can be used routinely, with immediate success.

Course Outline

Instrumentation Strategies

- Detectors: How they Work
- Practical Applications
- Triumphs and Tribulations
- Exotic Applications

Sample Preparation Strategies

- Supercritical Fluid Extraction
- Headspace Gas Chromatography
- Thermal Desorption
- Solid Phase Extraction and Microextraction
- Classic Technique

Derivatization Strategies

- When to Consider
- Functional Group Manipulation
- Sample Matrix Derivatization
- Detector Enhancement
- Sample Preparation Derivatization

Chromatographic Strategies

- Super-Separation Techniques?
- GC: Heartcutting
- Dual-Column Techniques
- Specific Analyzers
- Intelligent Injection
- Liquid Chromatography: Multiple Strategies
- Specific Analyzers
- Coupled Techniques
- Practical Applications
- The Missing Link
- Future Trends

Prerequisites

Familiarity with gas chromatography or liquid chromatography.

Student Profile

Those interested in learning how to improve the precision, accuracy and sensitivity of their laboratory analyses.

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